IN THE CLAIMS

Please cancel claims 6 and 7, amend claims 1-5, 8, 9, 11, 12, 18, 26 and 47-50, and add new claims 65 and 66 as follows:

- (CURRENTLY AMENDED) Substantially purified DNA comprising DNA encoding an amino acid sequence selected from the group consisting of the amino acid sequence of:
- (i) Sucptococcus Pyogenes DNase B enzyme as shown in Figure 4 which includes at its amino terminus an arginine (R) residue derived from a leader peptide (SEQ ID NO: 9), the leader peptide having the amino sequence shown in SEQ ID NO: 1; and
- (ii) Sucptococcus Pyogenes DNase B enzyme as shown in Figure 4 which does not include at its amino terminus an arginine (R) residue derived from a leader peptide (residues 2-229 of SEQ ID NO: 9), the leader peptide having the amino acid sequence shown in SEQ ID NO: 1

 Sureptococcus pyogenes DNase B enzyme as shown in Figure 4; and (a) a sequence encoding a functional equivalent of S. pyogenes DNase B enzyme, the DNA being substantially free of DNA that does not encode the atnino acid sequence of Figure 4 or a functional equivalent of S. pyogenes DNase B enzyme.

 B enzyme except for a leader peptide fused to the amino terminus of S. pyogenes DNase B enzyme.
- 2. (CURRENTLY AMENDED) The DNA of claim 1 wherein the DNA further comprises a DNA sequence encoding the leader peptide having the amino acid sequence shown in SEQ ID NO: 1 fused to the amino terminus of S. pyogenes DNase B enzyme.
- 3. (CURRENTLY AMENDED) The DNA of claim 1 having the nucleotide sequence of Figure 3 (SEQ ID NO: 7).
- 4. (CURRENTLY AMENDED) An expression vector for <u>Streptococcus pyogenes</u>

 DNase B enzyme comprising the DNA sequence of claim 1 operatively linked to a least one control sequence compatible with a suitable bacterial host cell.

- 5. (CURRENTLY AMENDED) An expression vector for Streptococcus pyogenes
 DNase B enzyme comprising the DNA sequence of claim [[3]] 1 operatively linked to at least one
 control sequence compatible with a suitable bacterial host cell.
 - 6. (CANCELLED)
 - 7. (CANCELLED)
- 8. (CURRENTLY AMENDED) A bacterial host cell transformed with the expression vector of claim [[4]] 5 in a manner allowing the transformed bacterial host cell to express the
 Streptococcus pyogenes DNase B encoded by the DNA incorporated within the expression vector of claim [[4]] 5 in a detectable quantity.
- 9. (CURRENTLY AMENDED) A bacterial host cell transformed with the expression vector of claim 5 in a manner allowing the transformed bacterial host cell to express the <u>Streptococcus pyogenes</u> Streptococcus pyogenes DNase B encoded by the DNA incorporated within the expression vector of claim 5 in a detectable quantity, and wherein DNA comprises the nucleotide sequence of Figure 3 (SEQ ID NO: 7).
 - 10. (CANCELLED)
- 11. (CURRENTLY AMENDED) A process for producing substantially purified Streptococcus pyogenes DNasc B enzyme comprising:
 - (a) culturing the bacterial host cell of claim 8;
 - (b) using the cultured bacterial host cell to express the DNase B enzyme; and
 - (c) purifying the enzyme from the cultured bacterial host cell.
- 12. (CURRENTLY AMENDED) A process for producing substantially purified <u>Streptococcus pyogenes</u> Streptococcus pyogenes DNase B enzyme comprising.
 - (a) culturing the bacterial host cell of claim 9;

- (b) using the cultured bacterial host cell to express the DNase B enzyme; and
- (c) purifying the enzyme from the cultured bacterial host cell.

13-17. (CANCELLED)

18. (CURRENTLY AMENDED) A transcriptional fusion comprising at least a portion of the S-pyogenes Streptococcus pyogenes DNase B DNA sequence of claim [[3]] 1 fused with another gene, with the fusion having a detectable property altered from the property of the sequence of claim [[3]] 1.

19-25. (CANCELLED)

26. (CURRENTLY AMENDED) A single-stranded nucleic acid probe hybridizing with all nucleotides in the full length DNA sequence coding for the amino-terminal 23 amino acids of the Streptococcus pyogenes DNAse B enzyme, not including any portion of the leader sequence thereof, with no greater than about a 30% mismatch over the full length DNA sequence coding for the amino-terminal 23 amino acids.

27-46. (CANCELLED)

- 47. (CURRENTLY AMENDED) A method of using a promoter of Figure 7 (SEQ ID NO: 10) originally associated with the S. pyogenes Stroptococcus pyogenes DNase B gene to express a protein other than DNase B comprising:
- (a) scparating the promoter originally associated with the S. pyogenes Streptococcus pyogenes DNase B gene from the S. pyogenes Streptococcus pyogenes DNase B gene;
- (b) operatively linking the promoter with a structural gene for a S. pyogenes Streptococcus pyogenes protein other than the gene for DNase B; and
 - (c) expressing the protein encoded by the structural gene.

- 48. (CURRENTLY AMENDED) The method of claim 47 wherein the protein is expressed in <u>S. pyogenes</u> <u>Streptococcus pyogenes</u>.
- 49. (CURRENTLY AMENDED) The method of claim 48 wherein the protein is expressed in a prokaryote other than <u>S. pyogenes</u> <u>Streptococcus pyogenes</u>.
- 50. (CURRENTLY AMENDED) A substantially purified promoter sequence derived obtained from a promoter sequence of Figure 7 (SEQ ID NO: 10) originally associated with Standard promoters Streptococcus pyogenes DNase B including therein a start site for transcription and sites homologous to the consensus 10 and 35 sites of bacterial promoters.

51-63. (CANCELLED)

- 64. (PREVIOUSLY PRESENTED) An isolated polynucleotide consisting of a nucleotide sequence encoding the amino acid sequence indicated in Figure 4, SEQ ID NO: 9.
- -65. (NEW) The DNA of claim 1 wherein the DNA encodes a Streptococcus Pyogenes DNase B enzyme as shown in Figure 4 which includes at its amino terminus an arginine (R) residue derived from a leader peptide (SEQ ID NO: 9), the leader peptide having the amino sequence shown in SEQ ID NO: 1.
- -66. (NEW) The DNA of claim 1 wherein the DNA encodes a Streptococcus Pyogenes DNase B enzyme as shown in Figure 4 which does not include at its amino terminus an arginine (R) residue derived from a leader peptide (residues 2- 229 of SEQ ID NO: 9), the leader peptide having the amino acid sequence shown in SEQ ID NO: 1.